

Michigan Tech University Animal Committee (IACUC)

MEETING MINUTES

October 10, 2018

M&M 310

The meeting was called to order on October 10, 2018 at 12:14 PM and a quorum was present.

**ATTENDANCE**

**Voting Members Present:**

David Dixon  
Courtney Holzberger  
Jeff Lewin  
Brigitte Morin  
R Vollrath

**Non-Voting Attendees, Staff and Guests Present:**

Joanne Polzien

**Recording:**

Courtney Holzberger

**ITEMS**

- 1 **Attendee Roll Call**
- 2 **Review of Previous Minutes**  
Motion: Morin  
Second: Vollrath
- 3 **Review last semi-annual inspection report**  
Motion: Lewin  
Second: Dixon
- 4 **Reviews since last meeting**
  - 4.1 **[1216906-1] Detection of migratory fish in tributaries**

**PI:** Casey Huckins, PhD  
**Reference Number:** L0278  
**Sponsor:** none at this time  
**Submission Type:** New Project  
  
**Review Type:** Designated Member Review  
**Action:** Information Required  
**Effective Date:** April 11, 2018  
**Project Status:** Deferred - Information Required

**4.2 [1216906-2] Detection of migratory fish in tributaries**

**PI:** Casey Huckins, PhD  
**Reference Number:** L0278  
**Sponsor:** none at this time  
**Submission Type:** Response/Follow-Up  
  
**Review Type:** Designated Member Review  
**Action:** Approved  
**Effective Date:** May 18, 2018  
**Project Status:** Active  
**Project Expiration:** May 17, 2019

**Discussion and Remarks:**

Approved after verifying that a permit was issued for this project.

**4.3 [1217507-1] Advanced Wound Healing**

**PI:** Smitha Rao, PhD  
**Reference Number:** L0279  
**Submission Type:** New Project  
  
**Review Type:** Full Committee Review  
**Action:** Information Required  
**Effective Date:** June 11, 2018  
**Project Status:** Deferred - Information Required

**Discussion and Remarks:**

Full committee review. J. Lewin, D. Dixon. B. Morin. R. Vollrath. C. Holzberger. Extensive list of questions for the PI.

**4.4 [1217507-2] Advanced Wound Healing**

**PI:** Smitha Rao, PhD  
**Reference Number:** L0279  
**Submission Type:** Response/Follow-Up

**Review Type:** Full Committee Review  
**Action:** Approved  
**Effective Date:** August 24, 2018  
**Project Status:** Active  
**Project Expiration:** August 23, 2019

**Discussion and Remarks:**

Follow up to previous package with comments, committee reviewed again and agreed that all questions were answered.

**4.5 [511099-19] The role of (pro)renin receptor in hypertension and associated heart dysfunction**

**PI:** Zhiying Shan  
**Reference Number:** L0250  
**Sponsor:** American Heart Association  
**Submission Type:** Amendment/Modification

**Review Type:** Designated Member Review  
**Action:** Approved  
**Effective Date:** July 20, 2018  
**Project Status:** Active  
**Project Expiration:** October 11, 2018

**Discussion and Remarks:**

Designated member: R. Vollrath.

**4.6 [1284566-1] Functional Dissection of Pallidal Circuits in Therapeutic Deep Brain Stimulation**

**PI:** Chunxiu Yu, Ph.D  
**Reference Number:** L0280  
**Sponsor:** NINDS  
**Submission Type:** New Project

**Review Type:** Full Committee Review  
**Action:** Information Required  
**Effective Date:** July 16, 2018  
**Project Status:** Deferred - Information Required

**Discussion and Remarks:**

Full Committee Review. D. Dixon, J. Lewin, C. Holzberger, J. Vertin, and R. Vollrath all reviewed. Questions were asked of the PI. Notably, use of painkillers, anesthetics, and location of surgery.

**4.7 [1284566-2] Functional Dissection of Pallidal Circuits in Therapeutic Deep Brain Stimulation**

**PI:** Chunxiu Yu, Ph.D

**Reference Number:** L0280  
**Sponsor:** NINDS  
**Submission Type:** Response/Follow-Up

**Review Type:** Designated Member Review  
**Action:** Approved  
**Effective Date:** July 31, 2018  
**Project Status:** Active  
**Project Expiration:** July 30, 2019  
**Next Report Due:** July 29, 2019

**Discussion and Remarks:**

Initial package went to FCR. Those with questions reviewed this package and indicated that their questions were answered satisfactorily. R. Vollrath, D. Dixon, and J. Lewin.

**4.8 [1299143-1] BL4440 - Fish Biology Laboratory - Field sampling of fishes in Rivers and Lakes of Michigan's Upper Peninsula**

**PI:** Gordon Paterson, PhD  
**Reference Number:** L0281  
**Sponsor:** N/A Instructional course BL4440  
**Submission Type:** New Project

**Review Type:** Designated Member Review  
**Action:** Approved  
**Effective Date:** August 1, 2018  
**Project Status:** Active  
**Project Expiration:** July 31, 2019

**Discussion and Remarks:**

DMR: D. Dixon. No questions.

**4.9 [1307331-1] Effects of different forest management strategies on wildlife communities in Michigan's Upper Peninsula**

**PI:** Jared Wolfe, PhD  
**Reference Number:** L0282  
**Submission Type:** New Project

**Review Type:** Designated Member Review  
**Action:** Approved  
**Effective Date:** September 17, 2018

**Project Status:** Active  
**Project Expiration:** September 16, 2019

**Discussion and Remarks:**

Reviewed via DMR, D. Dixon. He had some basic suggestions but no questions.

**5 Administrative Processing**

**5.1 [380482-20] Vascular Materials**

**PI:** Jeremy Goldman, PhD  
**Reference Number:** L0182  
**Submission Type:** Amendment/Modification

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** June 14, 2018  
**Project Status:** Active  
**Project Expiration:** October 31, 2018

**Discussion and Remarks:**

Added personnel.

**5.2 [716655-12] Evaluation of Broadly Protective Next-generation Human Papillomavirus (HPV) Vaccines**

**PI:** Ebenezer Tumban  
**Reference Number:** L0264  
**Submission Type:** Amendment/Modification

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** July 25, 2018  
**Project Status:** Active  
**Project Expiration:** March 20, 2019

**Discussion and Remarks:**

Added graduate personnel.

**5.3 [380482-21] Vascular Materials**

**PI:** Jeremy Goldman, PhD  
**Reference Number:** L0182  
**Submission Type:** Amendment/Modification

**Review Type:** Administrative Review

**Action:** Approved  
**Effective Date:** August 2, 2018  
**Project Status:** Active  
**Project Expiration:** October 31, 2018

**Discussion and Remarks:**

Addition of undergraduate personnel.

5.4 **[511099-20] The role of (pro)renin receptor in hypertension and associated heart dysfunction**

**PI:** Zhiying Shan  
**Reference Number:** L0250  
**Sponsor:** American Heart Association  
**Submission Type:** Amendment/Modification

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** August 20, 2018  
**Project Status:** Active  
**Project Expiration:** October 11, 2018

**Discussion and Remarks:**

Added personnel, training verified.

5.5 **[366864-17] Neural mechanisms of sympathetic activation and hypertension by alcohol intake**

**PI:** Qinghui Chen, Ph.D.  
**Reference Number:** L0227  
**Submission Type:** Amendment/Modification

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** September 11, 2018  
**Project Status:** Active  
**Project Expiration:** March 21, 2019

**Discussion and Remarks:**

Added graduate student personnel. Training verified.

5.6 **[400901-16] NEURAL MECHANISMS OF SYMPATHETIC ACTIVATION IN SALT-SENSITIVE HYPERTENSION**

**PI:** Qing-Hui Chen, Ph.D.  
**Reference Number:** L0245  
**Submission Type:** Amendment/Modification

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** September 11, 2018  
**Project Status:** Active  
**Project Expiration:** November 29, 2018

**Discussion and Remarks:**

Added graduate student personnel.

**6 Renewals with changes**

**7 Renewals with no changes**

**7.1 [595132-7] Imaging and mechanical testing of Mammary Gland Tumor in Mice**

**PI:** Jingfeng Jiang, PhD  
**Reference Number:** L0256  
**Submission Type:** Continuing Review/Progress Report

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** April 23, 2018  
**Project Status:** Active  
**Project Expiration:** April 23, 2019

**Discussion and Remarks:**

Renewed with no changes.

**7.2 [941560-4] Wirelessly Actuated Fixation Plate to Deliver Fully Customized Mechanical Loading Profiles for Enhanced Osteogenesis and Vascularization in Bone Healing**

**PI:** Keat Ong, PhD  
**Reference Number:** L0273  
**Submission Type:** Continuing Review/Progress Report

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** September 27, 2018  
**Project Status:** Active  
**Project Expiration:** October 8, 2019

**Discussion and Remarks:**

Renewed with no changes.

7.3 **[380482-22] Vascular Materials**

**PI:** Jeremy Goldman, PhD  
**Reference Number:** L0182  
**Submission Type:** Continuing Review/Progress Report

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** September 25, 2018  
**Project Status:** Active  
**Project Expiration:** October 30, 2019

**Discussion and Remarks:**

Renewed with no changes.

7.4 **[639703-8] Achilles Tendon Repair with Mussel Inspired Bioadhesives**

**PI:** Bruce Lee  
**Reference Number:** L0260  
**Submission Type:** Continuing Review/Progress Report

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** September 13, 2018  
**Project Status:** Active  
**Project Expiration:** September 18, 2019

**Discussion and Remarks:**

Renewal with no changes.

7.5 **[338626-8] Ecology and Restoration of Coaster Brook Trout (*Salvelinus fontinalis*) in the Salmon Trout River, Marquette County**

**PI:** Casey Huckins, PhD  
**Reference Number:** L0249  
**Sponsor:** Huron Mountain Wildlife Foundation, National Fish and Wildlife Foundation  
**Submission Type:** Continuing Review/Progress Report

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** August 31, 2018  
**Project Status:** Active  
**Project Expiration:** August 22, 2019

**Discussion and Remarks:**



Renewed with no changes.

**7.6 [1133734-3] Top Down-Bottom Up Control Experiment**

**PI:** Amy Marcarelli, PhD  
**Reference Number:** L0276  
**Submission Type:** Continuing Review/Progress Report  
  
**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** August 20, 2018  
**Project Status:** Active  
**Project Expiration:** October 2, 2019

**Discussion and Remarks:**

Renewed with no changes

**7.7 [372111-8] Wolf/Moose Population Monitoring, Isle Royale Park**

**PI:** John Vucetich, PhD  
**Reference Number:** L0093R  
**Sponsor:** National Science Foundation, National Park Service  
**Submission Type:** Continuing Review/Progress Report  
  
**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** August 20, 2018  
**Project Status:** Active  
**Project Expiration:** September 20, 2019

**Discussion and Remarks:**

Renewal with no changes-

**7.8 [368493-18] Role of micro-30d in transgenic mice**

**PI:** Xiaoqing Tang  
**Reference Number:** L0228  
**Submission Type:** Continuing Review/Progress Report  
  
**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** August 8, 2018  
**Project Status:** Active  
**Project Expiration:** August 22, 2019

**Discussion and Remarks:**

Renewal with no changes.

**7.9 [313373-21] L0210 - "Biomaterial-Based Lymphatic Regeneration"**

**PI:** Jeremy Goldman, PhD  
**Reference Number:** L0210  
**Sponsor:** NIH  
**Submission Type:** Amendment/Modification

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** July 27, 2018  
**Project Status:** Active  
**Project Expiration:** July 25, 2019

**Discussion and Remarks:**

Renewed with no changes.

**7.10 [622109-5] Promoting Nerve Outgrowth through Topographical, Electrical, and Chemical Stimulation**

**PI:** Feng Zhao  
**Reference Number:** L0259  
**Submission Type:** Continuing Review/Progress Report

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** July 16, 2018  
**Project Status:** Active  
**Project Expiration:** July 19, 2019

**Discussion and Remarks:**

Renewed with no changes. They use early development chicken embryos.

**7.11 [588706-7] Impacts of bioenergy development on biodiversity and ecosystem services in the Americas - for purposes of IREU, linked with NSF Award #1019928 (Interactive effects of predation and ecosystem size on arthropod food webs in Hawaiian forests fragmented by lava flows)**

**PI:** David Flaspohler, PhD  
**Reference Number:** L0257  
**Sponsor:** National Science Foundation  
**Submission Type:** Continuing Review/Progress Report

**Review Type:** Administrative Review

**Action:** Approved  
**Effective Date:** June 14, 2018  
**Project Status:** Active  
**Project Expiration:** May 24, 2019

**Discussion and Remarks:**

Renewed with no changes.

**7.12 [1051340-3] Developing Strategies for bringing back the Arctic Grayling in Michigan**

**PI:** Gordon Paterson, Ph.D.  
**Reference Number:** L0274  
**Sponsor:** Michigan Department of Natural Resources  
**Submission Type:** Continuing Review/Progress Report

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** May 24, 2018  
**Project Status:** Active  
**Project Expiration:** May 23, 2019

**Discussion and Remarks:**

Renewal with no modifications.

**7.13 [339314-7] Mechanistic Basis of Glycan-mediated Biological Functions**

**PI:** Tarun Dam, Ph. D.  
**Reference Number:** L0222 M0957  
**Submission Type:** Continuing Review/Progress Report

**Review Type:** Administrative Review  
**Action:** Approved  
**Effective Date:** May 15, 2018  
**Project Status:** Active  
**Project Expiration:** May 17, 2019

**7.14 [511099-21] The role of (pro)renin receptor in hypertension and associated heart dysfunction**

**PI:** Zhiying Shan  
**Reference Number:** L0250  
**Sponsor:** American Heart Association  
**Submission Type:** Continuing Review/Progress Report

**Review Type:** Administrative Review  
**Action:** Approved

**Effective Date:** October 1, 2018  
**Project Status:** Active  
**Project Expiration:** October 10, 2019

**Discussion and Remarks:**  
Renewed with no changes.

## 8 Closures / Terminations

### 8.1 [1070650-6] In Vivo Antibacterial Orthopaedic Implant Commercialization

**PI:** Craig Friedrich, PhD  
**Reference Number:** L0275  
**Sponsor:** MiTRAC Grant (MEDC, University of Michigan FFMI)  
**Submission Type:** Closure/Final Report

**Review Type:** Administrative Review  
**Action:** Closed  
**Effective Date:** May 3, 2018  
**Project Status:** Closed - Project Complete

**Discussion and Remarks:**  
All work took place at another institution, verified closed at Beaumont.

### 8.2 [775873-4] Vertebrate food web structure and complexity at predator-derived versus human-derived resource hotspots

**PI:** Joseph Bump  
**Reference Number:** L0267  
**Submission Type:** Other

**Review Type:** Administrative Review  
**Action:** Terminated  
**Effective Date:** June 22, 2018  
**Project Status:** Closed - Expired

**Discussion and Remarks:**  
Expired with no response, project has been terminated. No active animals. PI has left university.

## 9 Adverse Events

No adverse events to report.

## 10 Other Business

Discussed USDA inspection.

Discussed new lab in DOW 417. It was determined that Vollrath will need to see the lab before work is performed.

Determined that a gas anesthesia protocol should be developed and provided to those working with gas anesthesia.

**11 Adjourn**

**12 Semi-annual inspection of the Animal Care Facility**

B. Morin and C. Holzberger performed the inspection. No issues found.

The meeting adjourned on October 10, 2018 at 12:55 PM.